

ABSTRACT

[0029] A system and method for load balancing transmissions across a multilink frame relay connection is disclosed. A credit value is assigned to each bundle link in the multilink based on the amount of data transmitted over a set period of time. Frames or frame fragments are sent over the link with the highest credit value. Credit is subtracted from the link in proportion to the size of the frame or frame fragment. When two or more links have the same credit value, the frame or fragment is sent over the slowest link. The credit values are reset when a specified time period has passed, a link has a negative credit value, or all the links have a credit value of zero.